# Identifying equivalent algebraic expressions: Worksheet 8.2

Name ........................................ Date ........................................ Score ........................................

For each expression, select **all** equivalent expressions from the list

1. $16x - 20$

   A. $4(4x - 3)$      B. $-4$      C. $4(4x - 5)$      D. $20x - 16$

2. $3p + 2p + 5p$
   A. $10p$      B. $p + 10$      C. $9p + p$      D. $8p - 2p$

3. $9x + 6y$
   A. $6(x + 3y)$      B. $3(3x + 2y)$   C. $6x + 9y$      D. $6x - 9y$

4. $15x - 10y$
   A. $5x - 10y$      B. $10x + 15y$    C. $5(3x + 2y)$      D. $5(3x - 2y)$

5. $9x^2 + 24$
   A. $9x^2 - 24$    B. $x^2 + 24$      C. $3(3x^2 + 8)$      D. $9x^2 + 14$

6. $6x^2 + 3x$
   A. $6x^2 + x$      B. $3x(2x + 1)$      C. $2(3x^2 + x)$      D. $6x^2 - 2x$

7. $12xy + 5xz$
   A. $12xy - 5xz$   B. $3x(4y + 5z)$      C. $12yz + 5xz$      D. $x(12y + 5z)$

8. $10x + 5x^2$
   A. $10x - x^2$      B. $5x(2 + x)$      C. $5(2x + x^2)$      D. $10x^2 + 5x$

9. $4y + 3y + 2y$
   A. $9y$      B. $y + 9$      C. $4y + 5y$      D. $6y - 3y$

10. $8xyz + 3xy$
    A. $3xyz + 8xy$   B. $xy(8z + 3)$   C. $x(8yz + 3y)$      D. $8xyz - 3xy$

1. C

2. A, C

3. B

4. D

5. C

6. B

7. D

8. B, C

9. A, C

10. B, C